STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

				ļ	DIVISION O		GAS AND M				AMENI	DED REPOR	T		
		AP	PLICATION FOR	PERMIT	T TO DRILL					1. WELL NAME and NU	JMBER SRW 823	-21K4BS			
2. TYPE O	F WORK	DRILL NEW WELL	REENTER P	&A WELL (DEEPEN	WELL ()			3. FIELD OR WILDCAT	NATURAL	BUTTES			
4. TYPE O	F WELL	Ga	s Well Coal	bed Metha	ane Well: NO					5. UNIT or COMMUNITIZATION AGREEMENT NAME SOUTH RED WASH					
6. NAME C	F OPERATOR	ŀ	(ERR-MCGEE OIL &	GAS ONSI	HORE, L.P.					7. OPERATOR PHONE 720 929-6100					
8. ADDRES	SS OF OPERATO		P.O. Box 173779, [Denver, CO	O, 80217					9. OPERATOR E-MAIL Andy.Lytle@anadarko.com					
	AL LEASE NUM ., INDIAN, OR S				ERAL OWNERS RAL (III) IND	SHIP DIAN 🛑) STATE () FEE(0	12. SURFACE OWNERS FEDERAL INC	SHIP DIAN (STATE	FE	E ()	
13. NAME	OF SURFACE	OWNER (if box 12 =	'fee')	'						14. SURFACE OWNER	PHONE	(if box 12	= 'fee')		
15. ADDRI	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNER	R E-MAIL	(if box 12	= 'fee')		
	N ALLOTTEE OI = 'INDIAN')	R TRIBE NAME			END TO COMM	NS	PRODUCTION		$\overline{}$	19. SLANT	RECTIONA		ORIZONT		
20. LOCA	TION OF WELL		F	OOTAGES	<u> </u>		R-QTR		TION	VERTICAL DIR		NGE	_	RIDIAN	
	N AT SURFACE			SL 2252			NWSE	2		8.0 S		3.0 E		S	
Top of U	ppermost Prod	ucing Zone	1822 F	SL 2139	FWL	N	NESW	2	1	8.0 S	23	3.0 E		S	
At Total	Depth		1822 F	SL 2139	FWL	N	NESW	2	1	8.0 S	23	3.0 E		S	
21. COUN	TY	UINTAH		22. DIST	TANCE TO NEA	NEAREST LEASE LINE (Feet) 505				23. NUMBER OF ACRE	S IN DRI		Т		
					25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 3941					26. PROPOSED DEPTH MD:		TVD: 119	00		
27. ELEVA	ATION - GROUN	D LEVEL 5241		28. BOND NUMBER WYB000291					29. SOURCE OF DRILL WATER RIGHTS APPR		MBER IF A	PPLICABI	LE		
		3241		ŀ	Hole, Casing			rmation							
String	Hole Size	Casing Size	Length \	Veight	Grade & T	hread	Max Mu	ıd Wt.		Cement		Sacks	Yield	Weight	
SURF	11	8.625	0 - 3780	28.0	J-55 L1	T&C	0.	.2		Type V		180	1.15	15.8	
PROD	7.875	4.5	0 - 11977	11.6	HCP-110	LT&C	12	.5	Prei	Class G mium Lite High Stre	ngth	390	3.38	15.8 12.0	
										50/50 Poz		1620	1.31	14.3	
					А	TTACH	IMENTS								
	VER	IFY THE FOLLO	VING ARE ATTA	CHED IN	I ACCORDAN	ICE WIT	TH THE UT	AH OIL AI	ND GAS	CONSERVATION G	ENERAI	RULES			
W wi	ELL PLAT OR M	AP PREPARED BY L	ICENSED SURVEYO	OR OR EN	GINEER		СОМ	PLETE DR	ILLING PI	LAN					
AF	FIDAVIT OF STA	TUS OF SURFACE	OWNER AGREEME	NT (IF FEE	SURFACE)		FORM	/ 5. IF OPE	RATOR IS	S OTHER THAN THE LE	ASE OW	NER			
DIF	RECTIONAL SUI	RVEY PLAN (IF DIR	ECTIONALLY OR H	ORIZONT	ALLY DRILLED))	торо	GRAPHIC	AL MAP						
NAME Jo	el Malefyt			TITLE R	Regualtory Anal	lyst	PHONE 720 929-6828								
SIGNATU	RE			DATE 1	12/11/2014				EMAIL j	oel.malefyt@anadarko.	com				
	BER ASSIGNED)4755115(0000		Bro	00 july										
					Permit N	Manage	er 7.3	2							

T8S, R23E, S.L.B.&M. N89°54'W - 80.22 (G.L.O.) Found 1916 Brass Cap in Mound of Stones. SRW 823-21K4BS (Surface Position) NAD 83 LATITUDE = 40.105169° (40° 06' 18.607") LONGITUDE = 109.330718° (109° 19' 50.585") NAD 27 LATITUDE = 40.105204° (40° 06' 18.733") LONGITUDE = 109.330038° (109° 19' 48.135") SRW 823-21K4BS (Bottom Hole) NAD 83 LATITUDE = 40.105912° (40° 06' 21.283") LONGITUDE = 109.333922° (109° 20' 02.118") NAD 27 LATITUDE = 40.105947° (40° 06' 21.409") LONGITUDE = 109.333241° (109° 19' 59.669") N0°02'W - 80.00 (G.L.O.) N0°03'W - 80.00 (G.L.O.) Found 1916 Found 1916 Brass Cap. Brass Cap. N00°06'26"W (Basis of Bearings) **WELL LOCATION:** SRW 823-21K4BS Bottom 5288 17' (Meas.) of Hole 21391 ELEV. UNGRADED GROUND = 5246.11 22521 Well Surface N00°17'56"E Position 548 1/4 Corner in Bed of Wash Not Monumented Found 1916 Found 1916 Brass Cap in Mound of Stones. Brass Cap. S89°43'51"W - 5288.01' (Meas.) WEST - 80.23 (G.L.O.) NOTES: = Section Corners Located 1. Well footages are measured at right angles to the Section Lines. SCALE G.L.O. distances are shown in feet or chains. 2. 1 chain = 66 feet. SURVEYOR'S CERTIFICATE 3. The Bottom of hole bears N73°16'33"W 936.46' from the Surface Position. THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED 4. NAD 83 Latitude & Longitude are (CORS 96)(EPOCH:2002). FROM FIELD NOTES OF ACTUAL SURVEYS MARGE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE 5. Bearings and Distances are based upon a Local Cartesian Grid, AND CORRECT TO THE BEST OF AN KNOWLEDGE AND BELIEF. oriented to Geodetic North at the North 1/4 Corner of Section 8, T10S, R22E, S.L.B.&M. The Grid having a mean project height of 5300'. Lineal units used are U.S. Survey Foot. 6. Basis of elevation is Tri-Sta "Two Water" located in Lot 4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'. GISTRATION NO 6028691 Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202 (435) 789-1365 **WELL PAD - SRW 823-21** TIMBERLINE ENGINEERING & LAND SURVEYING, INC. SRW 823-21K4BS 209 NORTH 300 WEST - VERNAL, UTAH 84078 **WELL PLAT** DATE SURVEYED: CONSULTING, LLC SHEET NO: SURVEYED BY: J.W. 3-25-13 1822' FSL, 2139' FWL (Bottom Hole) 2155 North Main Street DATE DRAWN: Sheridan, WY 82801 DRAWN BY: C.T.C. NE $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 21, T8S, R23E, 3-27-13 Phone 307-674-0609 Date Last Revised: S.L.B.&M., UINTAH COUNTY, UTAH. SCALE: 1" = 10001 1 OF 13 Fax 307-674-0182

Kerr-McGee Oil & Gas Onshore, LP WELL PAD – SRW 823-21J WELL – SRW 823-21K4BS Section 21, T8S, R23E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 24.2 miles to the junction of Kennedy Wash Road (Class D County Road) to the southwest. Exit right and proceed in a southwesterly direction along Kennedy Wash Road approximately 3.6 miles to the proposed access road to the northwest. Exit right and follow the road flags in a westerly direction approximately 4,525 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 32.0 miles in a southerly direction.

SRW 823-21J Pad Drilling Program
1 of 4

Kerr-McGee Oil & Gas Onshore. L.P.

SRW 823-21K4BS

Surface: 1548 FSL / 2252 FEL NWSE BHL: 1822 FSL / 2139 FWL NESW

Section 21 T8S R23E

Uintah County, Utah Mineral Lease: UTU-73021

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. & 2. <u>Estimated Tops of Important Geologic Markers</u>: <u>Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations</u>:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	2,615'	
Birds Nest	2,882'	Water
Mahogany	3,328'	Water
Wasatch	5,600'	Gas
Mesaverde	7,771'	Gas
Sego	10,060'	Gas
TVD	10,060'	
TD	10,137'	

3. Pressure Control Equipment

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. <u>Proposed Casing & Cementing Program:</u>

Please refer to the attached Drilling Program

5. <u>Drilling Fluids Program</u>:

Please refer to the attached Drilling Program

Evaluation Program:

Please refer to the attached Drilling Program

SRW 823-21J Pad Drilling Program 2 of 4

7. <u>Abnormal Conditions</u>:

Maximum anticipated bottom hole pressure calculated at 10060' TVD, approximately equals 6,137 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 3,950 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

9. <u>Variances:</u>

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

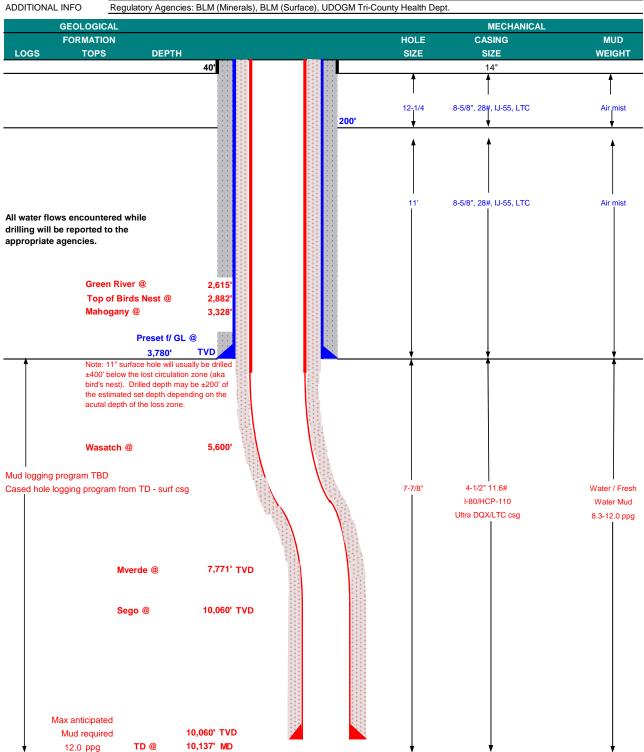
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KERR-McGEE OIL & GAS ONSHORE LP DATE May 14, 2013 SRW 823-21K4BS 10,137' MD TD WELL NAME 10,060' TVD **COUNTY Uintah** FINISHED ELEVATION **FIELD** Natural Buttes STATE Utah 5,241' SURFACE LOCATION **NWSE** 1548 FSL 2252 FEL Sec 21 T 8S R 23E Latitude: NAD 83 40.105169 -109.330718 Longitude: BTM HOLE LOCATION NESW 1822 FSL 2139 FWL T 8S R 23E Sec 21 40.105912 NAD 83 Latitude: Longitude: -109.333922 OBJECTIVE ZONE(S) Wasatch/Mesaverde





KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM DESIGN FACTORS DQX SIZE INTERVAL GR. CPLG. **BURST COLLAPSE TENSION** CONDUCTOR 14" 0-40' 3,390 1,880 348,000 N/A 28.00 1.1-55 **SURFACE** 8-5/8" 3,780 0 to **LTC** 1.43 1.06 3.75 N/A 6,350 223,000 7,780 267,035 **PRODUCTION** 4-1/2" 5,000 11.60 I-80 DOX 1.01 2 78 to 1.11 10,690 8,650 279,000 367,174 HCP-110 4-1/2" 5,000 to 10,137 11.60 1.11 1.01 4.58

Surface Casing:

(Burst Assumptions: TD =

12.0 ppg)

0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.61 psi/ft = bottomhole gradient

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIG	нт	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1		+ 0.25 pps flocele					
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
		+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to	surface, op	tion 2 will b	e utilized		
Option 2 LEAD	3,280'	65/35 Poz + 6% Gel + 10 pps gilsonite	300	35%	11.00		3.82
		+ 0.25 pps Flocele + 3% salt BWOW					
TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
		+ 0.25 pps flocele					
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION LEAD	5,097'	Premium Lite II +0.25 pps celloflake + .4% FL-52	390	35%	12.00		3.38
		+ .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II +					
		1.2% Sodium Metasilicate + .05 lbs/sk Static Free					
TAIL	5,040'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free	1,190	35%	14.30		1.31
		+ 1.2% Sodium Metasilicate + .5 % EC-1					
		+.002 gps FP-6L + 2% Bentonite II					

^{*}Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

PRODUCTION

Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well.

1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys	will h	ne taken	at 1	000'	minimum	intervals
Ourveys	AAIII F	Je taken	at i	,000	minimum	intervais.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

IF extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

DRILLING ENGINEER:		DATE:	
	Nick Spence / John Tuckwiller / Brian Cocchiere / Tyler Elliot	ott	
DRILLING SUPERINTENDENT:		DATE:	
	Lovel Young	_	_

^{*}Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained



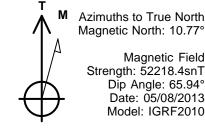
Project: UTAH - UTM (feet), NAD27, Zone 12N Site: SOUTH RED WASH UNIT 823-21K4BS

Well: SRW 823-21K4BS

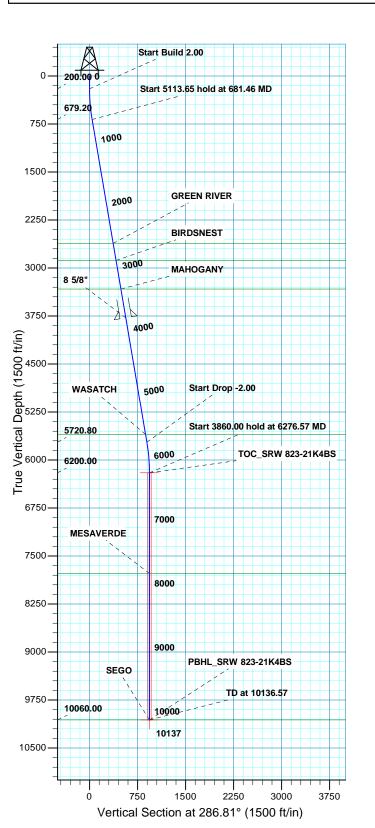
Wellbore: OH

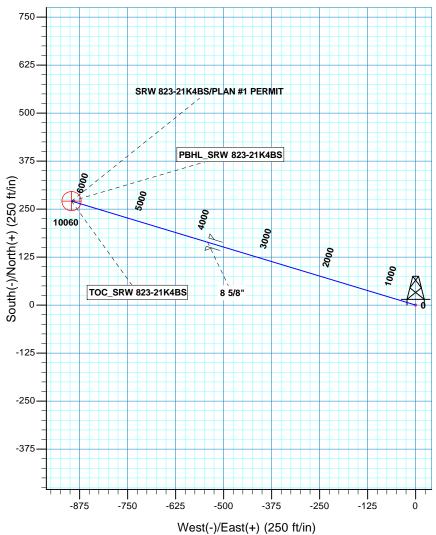
Design: PLAN #1 PERMIT





				WELL	. DETAILS: SRV	V 023-21N4D3						
GL 5246 & KB 4 @ 5250.00ft (ASSUMED)												
	+N/-S 0.00	+E/-W 0.00		Northing 14568737.73	Easting 2107396.40	Latittude 40.105204	Longitude -109.330038					
				D	ESIGN TARGET	DETAILS						
Name	TVD	+N/-S	+E/-W	Nor	thing	Easting	Latitude	Longitude	Shape			
тос	6200.00 - plan hits target	270.64 center	-896.12	145689		2106495.36	40.105947					
PBHL	10060.00 - plan hits target	270.64 center	-896.12	145689	91.49	2106495.36	40.105947	-109.333242	Circle (Radius: 25.00			





				SEC	TION	DETA	ILS			
MD 0.00 200.00 681.46 5795.11 6276.57 10136.57		0.00		+N/-S 0.00 0.00 11.67 258.97 270.64 270.64	-8: -8:	-E/-W 0.00 0.00 38.64 57.48 96.12	0.00 0.00 2.00 0.00 2.00	TFace 0.00 0.00 286.81 0.00 180.00	VSect 0.00 0.00 40.36 895.73 936.09	TOC_SRW 823-21K4BS
10136.57	0.00	0.00	10060.00	270.04	-0:	896.12				
PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone feedetic System: Universal Transverse Mercator (US Surve Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: Zone 12N (114 W to 108 W) Location: SECTION21 T10S R23E System Datum: Mean Sea Level						26 28 33 56 77	DPath 515.00 582.00 528.00 600.00 71.00	264 29 33(56) 784	Path 44.93 15.74 68.12 72.58 47.57 36.57	Formation GREEN RIVER BIRDSNEST MAHOGANY WASATCH MESAVERDE SEGO
				CA	SING	DETA	ILS			
			TVD 3778.00	382	MD 24.55		Name 8 5/8	e Size " 8.625		
							Plan: PL	AN #1 PE	ERMIT (S	RW 823-21K4BS/OH)

Created By: Gabe Kendall Date: 15:03, May 09 2013



US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N SOUTH RED WASH UNIT 823-21K4BS SRW 823-21K4BS

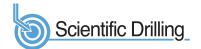
OH

Plan: PLAN #1 PERMIT

Standard Planning Report

09 May, 2013







Database: EDM 5000.1 Single User Db Company: US ROCKIES REGION PLAI

US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N

Site: SOUTH RED WASH UNIT 823-21K4BS

Well: SRW 823-21K4BS

Wellbore: OH

Project:

Site

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well SRW 823-21K4BS

GL 5246 & KB 4 @ 5250.00ft (ASSUMED) GL 5246 & KB 4 @ 5250.00ft (ASSUMED)

True

Minimum Curvature

Project UTAH - UTM (feet), NAD27, Zone 12N

Map System: Universal Transverse Mercator (US Survey Feet)

 Geo Datum:
 NAD 1927 (NADCON CONUS)

 Map Zone:
 Zone 12N (114 W to 108 W)

Mean Sea Level

SOUTH RED WASH UNIT 823-21K4BS, SECTION 21 T10S R23E

Northing: 14,568,737.73 usft Site Position: Latitude: 40.105204 From: Lat/Long Easting: 2,107,396.39 usft Longitude: -109.330038 **Position Uncertainty:** 0.00 ft Slot Radius: **Grid Convergence:** 1.08 13.200 in

System Datum:

Well SRW 823-21K4BS, 1548 FSL 2252 FEL

 Well Position
 +N/-S
 0.00 ft
 Northing:
 14,568,737.73 usft
 Latitude:
 40.105204

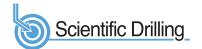
 +E/-W
 0.00 ft
 Easting:
 2,107,396.39 usft
 Longitude:
 -109.330038

Position Uncertainty 0.00 ft Wellhead Elevation: Ground Level: 5,246.00 ft

Wellbore ОН Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (nT) (°) (°) IGRF2010 05/08/13 10.77 65.94 52.218

PLAN #1 PERMIT Design **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (ft) (ft) (ft) (°) 0.00 0.00 0.00 286.81

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	
681.46	9.63	286.81	679.20	11.67	-38.64	2.00	2.00	0.00	286.81	
5,795.11	9.63	286.81	5,720.80	258.97	-857.48	0.00	0.00	0.00	0.00	
6,276.57 10,136.57	0.00 0.00	0.00 0.00	6,200.00 10,060.00	270.64 270.64	-896.12 -896.12	2.00 0.00	-2.00 0.00	0.00 0.00		TOC_SRW 823-21K4





Database: EDM 5000.1 Single User Db
Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: SOUTH RED WASH UNIT 823-21K4BS

SRW 823-21K4BS

Wellbore: OH

Well:

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

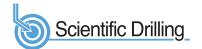
Survey Calculation Method:

Well SRW 823-21K4BS

GL 5246 & KB 4 @ 5250.00ft (ASSUMED) GL 5246 & KB 4 @ 5250.00ft (ASSUMED)

True

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build		0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	2.00	286.81	299.98	0.50	-1.67	1.75	2.00	2.00	0.00
400.00	4.00	286.81	399.84	2.02	-6.68	6.98	2.00	2.00	0.00
500.00	6.00	286.81	499.45	4.54	-15.02	15.69	2.00	2.00	0.00
600.00	8.00	286.81	598.70	8.06	-26.69	27.88	2.00	2.00	0.00
681.46 Start 5113	9.63 65 hold at 681.46	286.81	679.20	11.67	-38.64	40.36	2.00	2.00	0.00
700.00	9.63	286.81	697.48	12.57	-41.61	43.46	0.00	0.00	0.00
800.00	9.63	286.81	796.07	17.40	-57.62	60.19	0.00	0.00	0.00
900.00	9.63	286.81	894.66	22.24	-73.63	76.92	0.00	0.00	0.00
1,000.00	9.63	286.81	993.25	27.07	-89.65	93.64	0.00	0.00	0.00
1,100.00	9.63	286.81	1,091.84	31.91	-105.66	110.37	0.00	0.00	0.00
1,200.00	9.63	286.81	1,190.43	36.75	-121.67	127.10	0.00	0.00	0.00
1,300.00	9.63	286.81	1,289.02	41.58	-137.68	143.83	0.00	0.00	0.00
1,400.00	9.63	286.81	1,387.61	46.42	-153.70	160.55	0.00	0.00	0.00
1,500.00	9.63	286.81	1,486.20	51.26	-169.71	177.28	0.00	0.00	0.00
1,600.00	9.63	286.81	1,584.80	56.09	-185.72	194.01	0.00	0.00	0.00
1,700.00	9.63	286.81	1,683.39	60.93	-201.74	210.73		0.00	0.00
1,800.00	9.63	286.81	1,781.98	65.76	-217.75	227.46	0.00	0.00	0.00
1,900.00	9.63	286.81	1,880.57	70.60	-233.76	244.19		0.00	0.00
2,000.00	9.63	286.81	1,979.16	75.44	-249.77	260.92	0.00	0.00	0.00
2,100.00	9.63	286.81	2,077.75	80.27	-265.79	277.64	0.00	0.00	0.00
2,200.00	9.63	286.81	2,176.34	85.11	-281.80	294.37	0.00	0.00	0.00
2,300.00 2,400.00	9.63 9.63	286.81 286.81	2,274.93 2,373.52	89.94 94.78	-297.81 -313.82	311.10 327.82	0.00	0.00	0.00
2,500.00 2,600.00	9.63 9.63	286.81 286.81	2,472.12 2,570.71	99.62 104.45	-313.82 -329.84 -345.85	344.55 361.28	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
2,644.93	9.63	286.81	2,615.00	106.63	-353.04	368.79	0.00	0.00	0.00
2,700.00	/ER 9.63	286.81	2,669.30	109.29	-361.86	378.01	0.00	0.00	0.00
2,800.00	9.63	286.81	2,767.89	114.12	-377.88	394.73	0.00	0.00	0.00
2,900.00	9.63	286.81	2,866.48	118.96	-393.89	411.46	0.00	0.00	0.00
2,915.74	9.63	286.81	2,882.00	119.72	-396.41	414.09	0.00	0.00	0.00
BIRDSNES		200.04	2.005.07	402.00	400.00	400.40	0.00	0.00	0.00
3,000.00	9.63	286.81	2,965.07	123.80	-409.90	428.19	0.00	0.00	0.00
3,100.00	9.63	286.81	3,063.66	128.63	-425.91	444.91	0.00	0.00	0.00
3,200.00	9.63	286.81	3,162.25	133.47	-441.93	461.64	0.00	0.00	0.00
3,300.00	9.63	286.81	3,260.84	138.31	-457.94	478.37	0.00	0.00	0.00
3,368.12	9.63	286.81	3,328.00	141.60	-468.85	489.76	0.00	0.00	0.00
MAHOGAN		200.01	5,020.00	171.00	+00.00	700.70	0.00	0.00	0.00
3,400.00	9.63	286.81	3,359.44	143.14	-473.95	495.10	0.00	0.00	0.00
3,500.00	9.63	286.81	3,458.03	147.98	-489.97	511.82	0.00	0.00	0.00
3,600.00	9.63	286.81	3,556.62	152.81	-505.98	528.55	0.00	0.00	0.00
3,700.00	9.63	286.81	3,655.21	157.65	-521.99	545.28	0.00	0.00	0.00
3,800.00	9.63	286.81	3,753.80	162.49	-538.00	562.00	0.00	0.00	0.00
3,824.55 8 5/8"	9.63	286.81	3,778.00	163.67	-541.93	566.11	0.00	0.00	0.00
3,900.00	9.63	286.81	3,852.39	167.32	-554.02	578.73	0.00	0.00	0.00
4,000.00	9.63	286.81	3,950.98	172.16	-570.03	595.46	0.00	0.00	0.00
4,100.00	9.63	286.81	4,049.57	176.99	-586.04	612.19	0.00	0.00	0.00





Database: EDM 5000.1 Single User Db
Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: SOUTH RED WASH UNIT 823-21K4BS

Well: SRW 823-21K4BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well SRW 823-21K4BS

GL 5246 & KB 4 @ 5250.00ft (ASSUMED) GL 5246 & KB 4 @ 5250.00ft (ASSUMED)

True

ned Survey									
neu Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,200.00	9.63	286.81	4,148.16	181.83	-602.05	628.91	0.00	0.00	0.00
4,300.00	9.63	286.81	4,246.75	186.67	-618.07	645.64	0.00	0.00	0.00
4,400.00	9.63	286.81	4,345.35	191.50	-634.08	662.37	0.00	0.00	0.00
4,500.00	9.63	286.81	4,443.94	196.34	-650.09	679.09	0.00	0.00	0.00
4,600.00	9.63	286.81	4,542.53	201.17	-666.11	695.82	0.00	0.00	0.00
4,700.00	9.63	286.81	4,641.12	206.01	-682.12	712.55	0.00	0.00	0.00
4,800.00	9.63	286.81	4,739.71	210.85	-698.13	729.28	0.00	0.00	0.00
4,900.00	9.63	286.81	4,838.30	215.68	-714.14	746.00	0.00	0.00	0.00
5,000.00	9.63	286.81	4,936.89	220.52	-730.16	762.73	0.00	0.00	0.00
5,100.00	9.63	286.81	5,035.48	225.36	-746.17	779.46	0.00	0.00	0.00
5,200.00	9.63	286.81	5,134.07	230.19	-762.18	796.18	0.00	0.00	0.00
5,300.00	9.63	286.81	5,232.67	235.03	-778.20	812.91	0.00	0.00	0.00
5,400.00	9.63	286.81	5,331.26	239.86	-794.21	829.64	0.00	0.00	0.00
5,500.00	9.63	286.81	5,429.85	244.70	-810.22	846.37	0.00	0.00	0.00
5,600.00	9.63	286.81	5,528.44	249.54	-826.23	863.09	0.00	0.00	0.00
5,672.58	9.63	286.81	5,600.00	253.05	-837.86	875.23	0.00	0.00	0.00
WASATCH									
5,700.00	9.63	286.81	5,627.03	254.37	-842.25	879.82	0.00	0.00	0.00
5,795.11	9.63	286.81	5,720.80	258.97	-857.48	895.73	0.00	0.00	0.00
Start Drop	-2.00								
5,800.00	9.53	286.81	5,725.62	259.21	-858.26	896.54	2.00	-2.00	0.00
5,900.00	7.53	286.81	5,824.51	263.50	-872.46	911.38	2.00	-2.00	0.00
6,000.00	5.53	286.81	5,923.86	266.78	-883.34	922.75	2.00	-2.00	0.00
6,100.00	3.53	286.81	6,023.54	269.07	-890.91	930.65	2.00	-2.00	0.00
6,200.00	1.53	286.81	6,123.44	270.35	-895.14	935.07	2.00	-2.00	0.00
6,276.57	0.00	0.00	6,200.00	270.64	-896.12	936.09	2.00	-2.00	95.59
	00 hold at 6276.57	_		070.04	000.40	000.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,223.43	270.64	-896.12	936.09 936.09	0.00	0.00 0.00	0.00
6,400.00 6,500.00	0.00 0.00	0.00 0.00	6,323.43 6,423.43	270.64 270.64	-896.12 -896.12	936.09	0.00 0.00	0.00	0.00 0.00
6,600.00	0.00	0.00	6,523.43	270.64	-896.12 -896.12	936.09	0.00	0.00	0.00
6,700.00	0.00	0.00	6,623.43	270.64	-896.12	936.09	0.00	0.00	0.00
6,800.00	0.00 0.00	0.00 0.00	6,723.43 6,823.43	270.64 270.64	-896.12	936.09 936.09	0.00 0.00	0.00 0.00	0.00 0.00
6,900.00 7,000.00	0.00	0.00	6,923.43	270.64	-896.12 -896.12	936.09	0.00	0.00	0.00
7,100.00	0.00	0.00	7,023.43	270.64	-896.12	936.09	0.00	0.00	0.00
		0.00	7.123.43			936.09	0.00	0.00	0.00
7,200.00 7,300.00	0.00 0.00	0.00	7,123.43 7,223.43	270.64 270.64	-896.12 -896.12	936.09 936.09	0.00	0.00	0.00
7,300.00		0.00	7,223.43	270.64	-896.12 -896.12	936.09	0.00	0.00	0.00
7,500.00		0.00	7,423.43	270.64	-896.12	936.09	0.00	0.00	0.00
7,600.00		0.00	7,523.43	270.64	-896.12	936.09	0.00	0.00	0.00
7,700.00		0.00	7,623.43	270.64	-896.12	936.09	0.00	0.00	0.00
7,700.00		0.00	7,723.43	270.64	-896.12 -896.12	936.09	0.00	0.00	0.00
7,847.57		0.00	7,771.00	270.64	-896.12	936.09	0.00	0.00	0.00
MESAVERI			,						
7,900.00		0.00	7,823.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,000.00	0.00	0.00	7,923.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,100.00	0.00	0.00	8,023.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,200.00		0.00	8,123.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,300.00	0.00	0.00	8,223.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,400.00		0.00	8,323.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,500.00	0.00	0.00	8,423.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,600.00	0.00	0.00	8,523.43	270.64	-896.12	936.09	0.00	0.00	0.00





Database: Company: Project:

Site:

Well:

EDM 5000.1 Single User Db US ROCKIES REGION PLANNING UTAH - UTM (feet), NAD27, Zone 12N SOUTH RED WASH UNIT 823-21K4BS

SRW 823-21K4BS

Wellbore: OH

Design: PLAN #1 PERMIT

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well SRW 823-21K4BS

GL 5246 & KB 4 @ 5250.00ft (ASSUMED) GL 5246 & KB 4 @ 5250.00ft (ASSUMED)

True

ned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,700.00	0.00	0.00	8,623.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,800.00	0.00	0.00	8,723.43	270.64	-896.12	936.09	0.00	0.00	0.00
8,900.00	0.00	0.00	8,823.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,000.00	0.00	0.00	8,923.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,100.00	0.00	0.00	9,023.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,200.00	0.00	0.00	9,123.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,300.00	0.00	0.00	9,223.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,400.00	0.00	0.00	9,323.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,500.00	0.00	0.00	9,423.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,600.00	0.00	0.00	9,523.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,700.00	0.00	0.00	9,623.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,800.00	0.00	0.00	9,723.43	270.64	-896.12	936.09	0.00	0.00	0.00
9,900.00	0.00	0.00	9,823.43	270.64	-896.12	936.09	0.00	0.00	0.00
10,000.00	0.00	0.00	9,923.43	270.64	-896.12	936.09	0.00	0.00	0.00
10,100.00	0.00	0.00	10,023.43	270.64	-896.12	936.09	0.00	0.00	0.00
10,136.57	0.00	0.00	10,060.00	270.64	-896.12	936.09	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
TOC_SRW 823-21K4BS - plan hits target cent - Point	0.00 eer	0.00	6,200.00	270.64	-896.12	14,568,991.49	2,106,495.36	40.105947	-109.333242
PBHL_SRW 823-21K4B - plan hits target cent - Circle (radius 25.00		0.00	10,060.00	270.64	-896.12	14,568,991.49	2,106,495.36	40.105947	-109.333242

Casing Points							
	Measured	Vertical		Casing	Hole		
	Depth	Depth		Diameter	Diameter		
	(ft)	(ft)	Name	(in)	(in)		
	3,824.55	3,778.00 8 5/8"		8.625	11.000		

mations						
	Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,644.93	2,615.00	GREEN RIVER			
	2,915.74	2,882.00	BIRDSNEST			
	3,368.12	3,328.00	MAHOGANY			
	5,672.58	5,600.00	WASATCH			
	7,847.57	7,771.00	MESAVERDE			
	10,136.57	10,060.00	SEGO			





EDM 5000.1 Single User Db Database: US ROCKIES REGION PLANNING Company:

UTAH - UTM (feet), NAD27, Zone 12N Project: SOUTH RED WASH UNIT 823-21K4BS

Well: SRW 823-21K4BS

Wellbore: ОН

Site:

Design: PLAN #1 PERMIT Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well SRW 823-21K4BS

GL 5246 & KB 4 @ 5250.00ft (ASSUMED) GL 5246 & KB 4 @ 5250.00ft (ASSUMED)

True

Plan Annotations							
Measured Depth	Vertical Depth	Local Coor +N/-S	dinates +E/-W				
(ft)	(ft)	(ft)	(ft)	Comment			
200.00	200.00	0.00	0.00	Start Build 2.00			
681.46	679.20	11.67	-38.64	Start 5113.65 hold at 681.46 MD			
5,795.11	5,720.80	258.97	-857.48	Start Drop -2.00			
6,276.57	6,200.00	270.64	-896.12	Start 3860.00 hold at 6276.57 MD			
10,136.57	10,060.00	270.64	-896.12	TD at 10136.57			

Kerr-McGee Oil & Gas Onshore, L.P.

API # SRW 823-21K4BS

 Surface:
 1548 FSL / 2252 FEL
 NWSE
 Lot

 BHL:
 1822 FSL / 2139 FWL
 NESW
 Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on April 18, 2013. Present were:

- · Tyler Cox, Aaron Roe, Jessica DaBell, Korie Hamming- BLM
- · Mitch Batty Timberline Engineering & Land Surveying, Inc.
- · Gina Becker, Rod Anderson, Doyle Homes, Casey McKee, Doreen Green Kerr-McGee
- · Bill Knapp ICF

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The following segments are "on-lease"

 $\pm4105^{\circ}$ (0.77 miles) – Section 21 T8S R23E (SE/4) – On-lease UTU73021, from the edge of the pad to the proposed road at the SRW 823-22K intersection in Sec. 22 on lease UTU71424. Please refer to Topo Map B.

C. Location of Existing Wells:

Please refer to Topo C for exiting wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Gas Gathering Pipeline infrastructure will be utilized to collect and transport gas from the well which is owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is ± 12805 ' and the individual segments are broken up as follows:

The following segments are "onlease", no ROW needed.

- ±265' (0.05 miles) Section 21 T8S R23E (SE/4) On-lease UTU73021, BLM surface, New 6" surface gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 Pad and Pipeline Detail.
- ±4080' (0.77 miles) Section 21 T8S R23E (SE/4) On-lease UTU73021, BLM surface, New 6'' surface gas gathering pipeline from the edge of the pad to the proposed surface 6" gas pipeline tie-in point at the SRW 823-22K intersection in Sec. 22 on-lease UTU71424. This portion will run concurrently with the SRW 823-22K, SRW 823-22G, and SRW 823-15O. Please refer to Exhibit A, Line 4.
- ±2890' (0.55 miles) Section 22 T8S R23E (SW/4) On-lease UTU71424, BLM surface, New 6" surface gas gathering pipeline from the proposed surface 6" gas pipeline tie-in point at the SRW 823-22K intersection to the proposed surface 6" gas pipeline tie-in point at the SRW 823-22G intersection. This portion of pipeline will run concurrently with the SRW 823-22K, SRW 823-22G, and SRW 823-15O. Please refer to Exhibit A, Line 3.
- ±2840' (0.53 miles) Section 22 T8S R23E (NE/4) On-lease UTU71424, BLM surface, New 6" surface gas gathering pipeline from the proposed surface 6" gas pipeline tie-in point at the SRW 823-22G intersection to the proposed surface 6" gas pipeline tie in point at the SRW 823-15O intersection. This portion will run concurrently with SRW 823-22K, SRW 823-22G, and SRW 823-15O. Please refer to Exhibit A, Line 3. Please refer to Exhibit A, Line 2
- ±2730' (0.51 miles) Section 22 T8S R23E (NE/4)) On-lease UTU71424, BLM surface, New 6" surface gas gathering pipeline from the proposed surface 6" gas pipeline tie-in point at the SRW 823-15O intersection to the existing surface 6" gas pipeline to the Northeast in Sec. 14. This portion will run concurrently with SRW 823-22K, SRW 823-22G, and SRW 823-15O. Please refer to Exhibit A, Line 1.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

K. Surface/Mineral Ownership:

United States of America Bureau of Land Management 170 South 500 East Vernal, UT 84078 (435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Resource Reports:

A Class I literature survey was completed on April 23, 2013 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 13-057.

A paleontological reconnaissance survey was completed on April 01, 2013 by SWCA Environmental Consultants. For additional details please refer to report UT10-14314-12.

Biological field survey was completed on April 9, 2013 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-875.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

M. Lessee's or Operators' Representative & Certification:

Cara Mahler Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6029 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

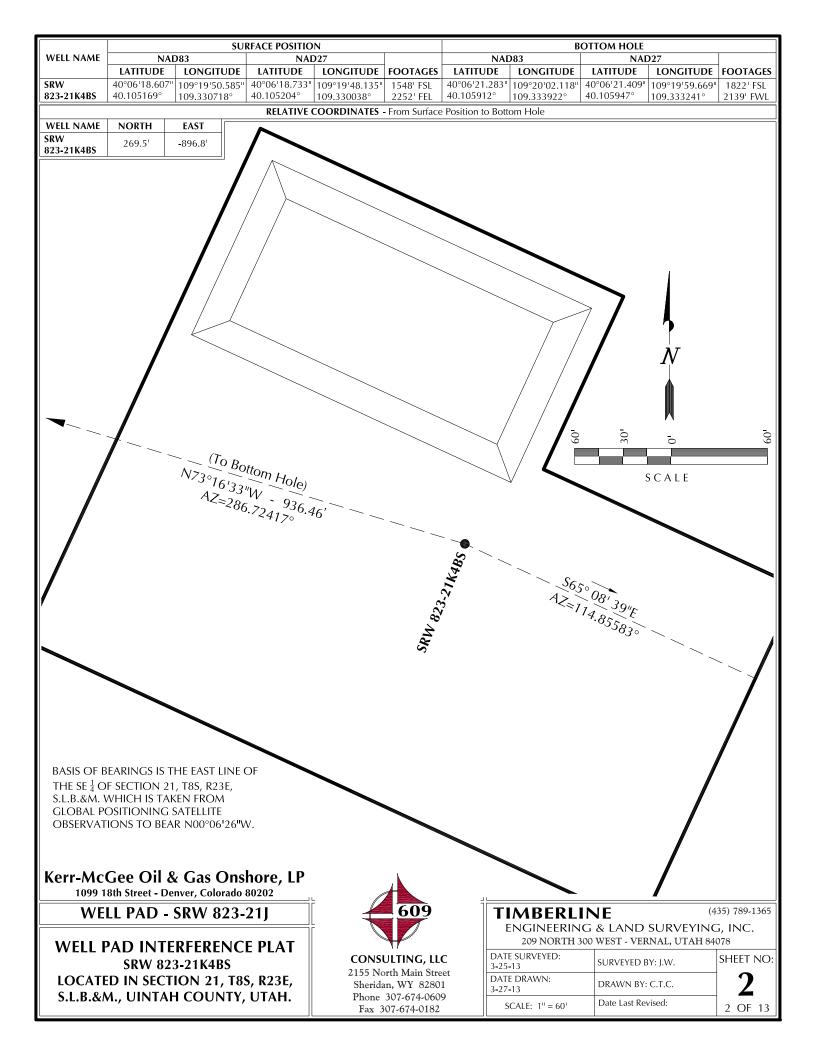
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

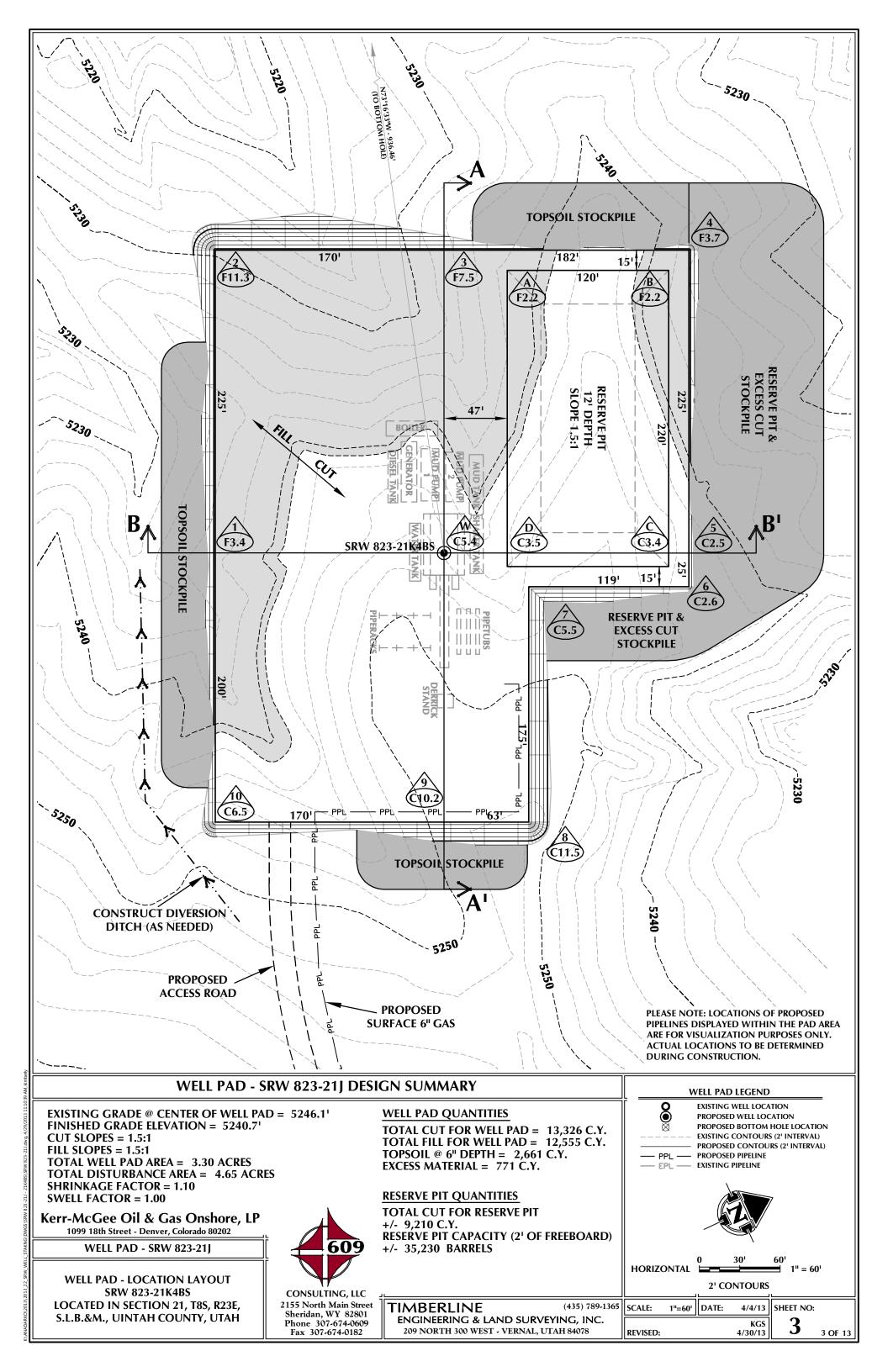
Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

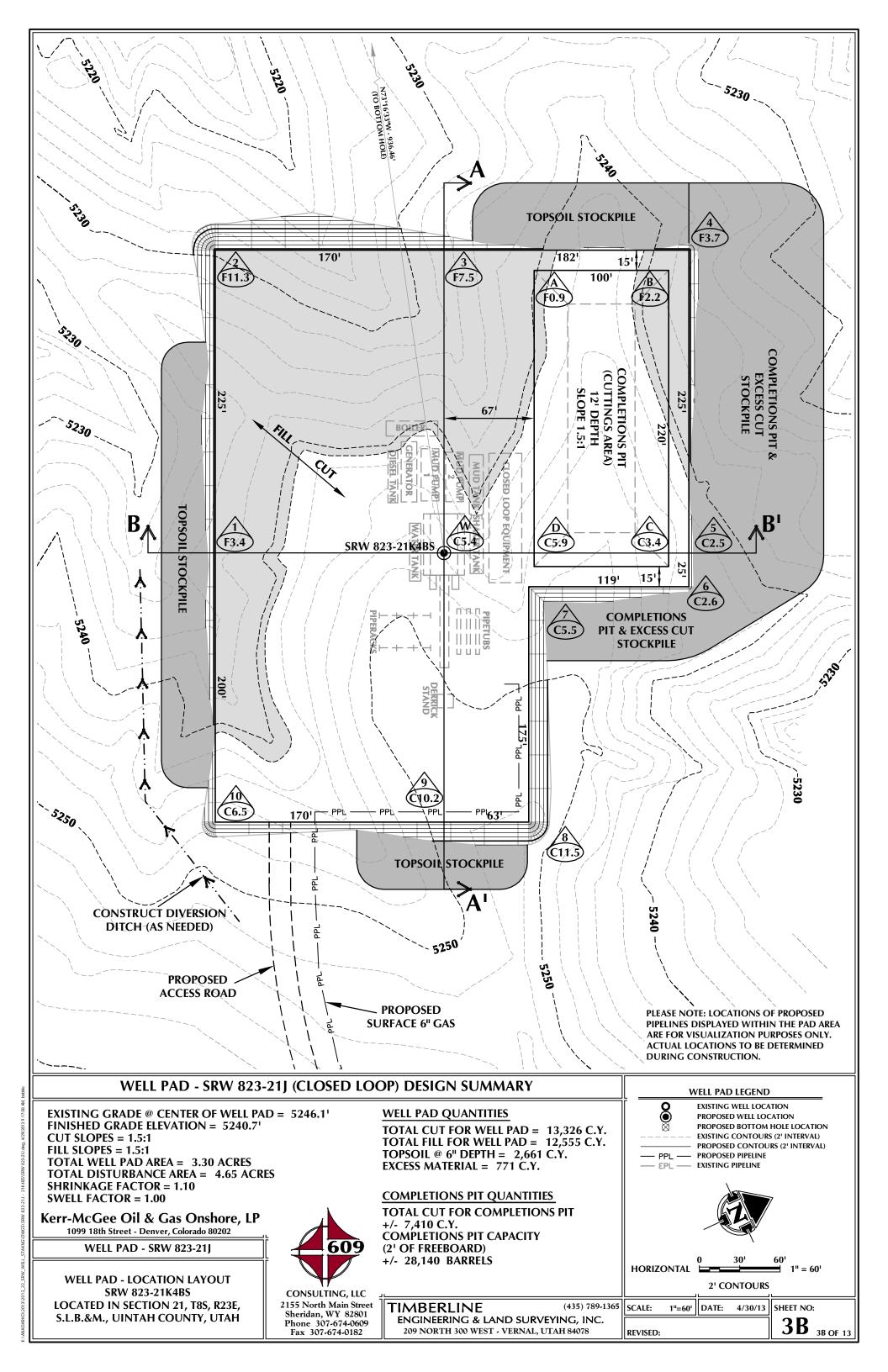
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

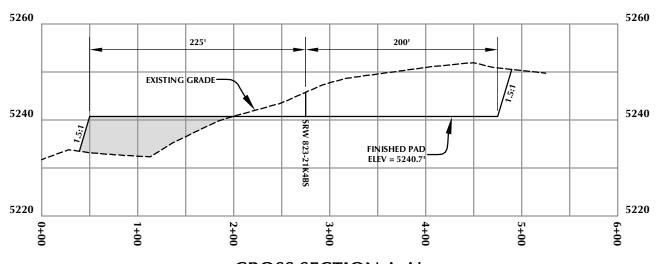
24	
	May 20, 2013
Cara Mahler	Date



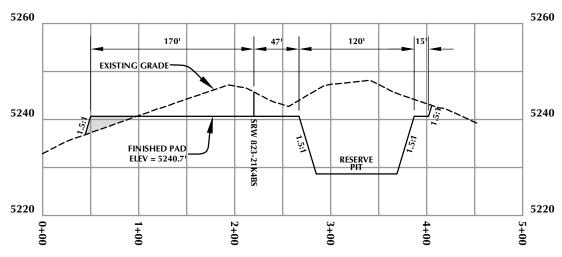








CROSS SECTION A-A'



Kerr-McGee Oil & Gas Onshore, LP

1099 18th Street - Denver, Colorado 80202

WELL PAD - SRW 823-21J

WELL PAD - CROSS SECTIONS SRW 823-21K4BS LOCATED IN SECTION 21, T8S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH

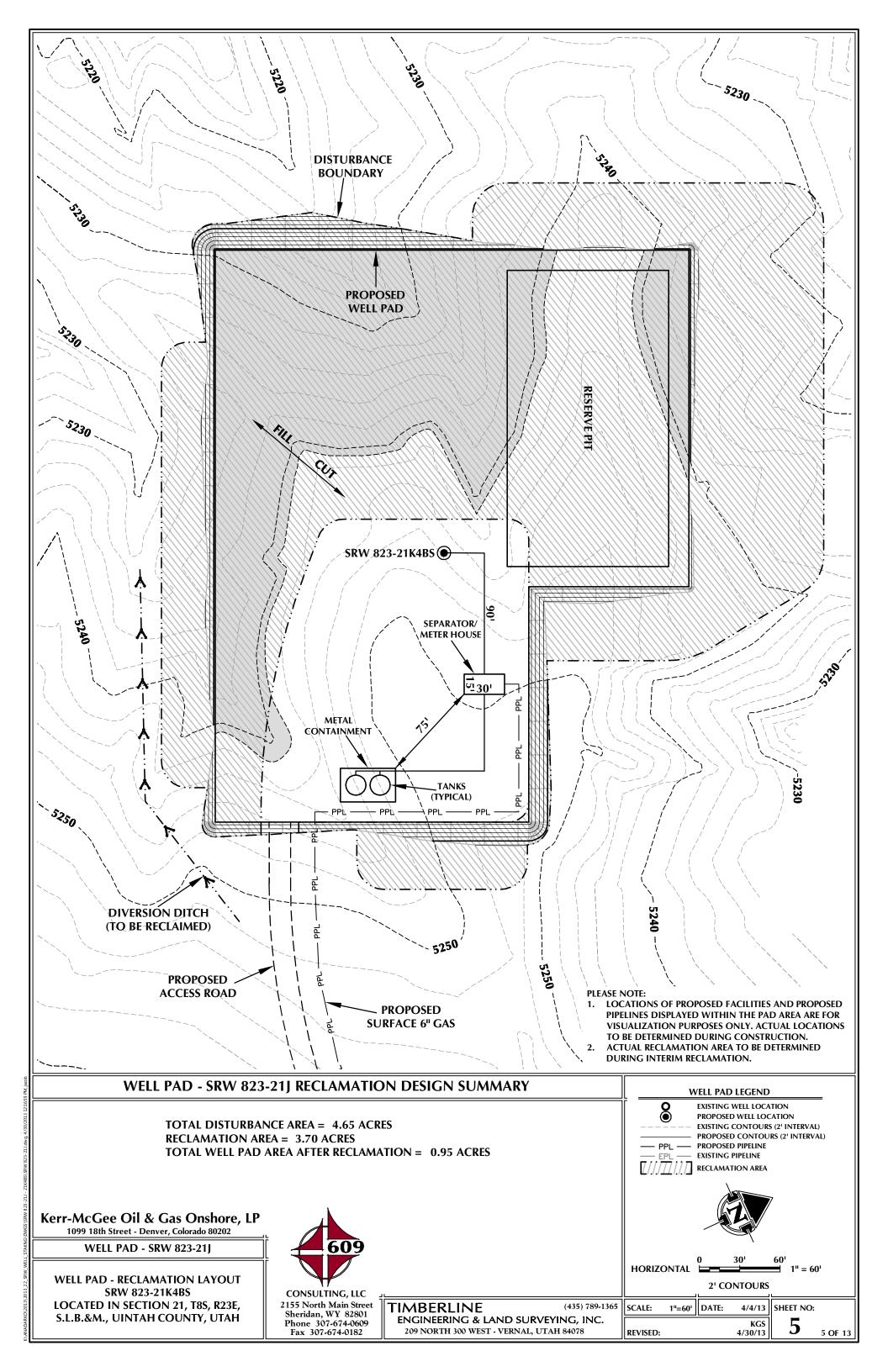
CROSS SECTION B-B'



CONSULTING, LLC	IL
2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609 Fax 307-674-0182	TIMBEI ENGINEE 209 NORT

TIMBERLINE	(435) 789-13
ENGINEERING & LAND SU	RVEYING, INC.
209 NORTH 300 WEST - VERNAL	" UTAH 84078

_						
55	SCALE:	1"=100'	DATE:	4/4/13	SHEET NO:	
	REVISED:				4	4 OF 13



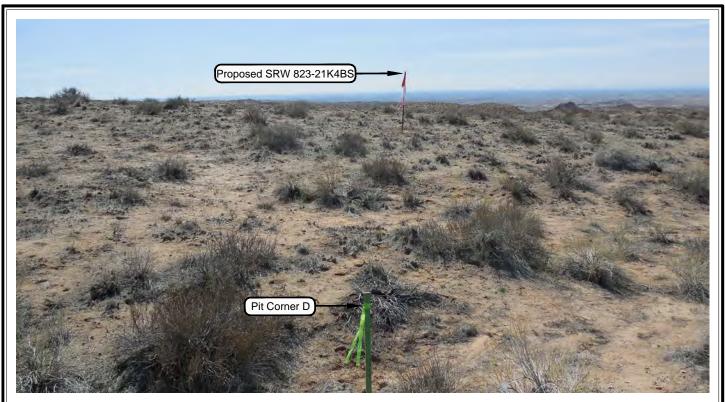


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

WELL PAD - SRW 823-21J

LOCATION PHOTOS SRW 823-21K4BS LOCATED IN SECTION 21, T8S, R23E, S.L.B.&M., UINTAH COUNTY, UTAH.



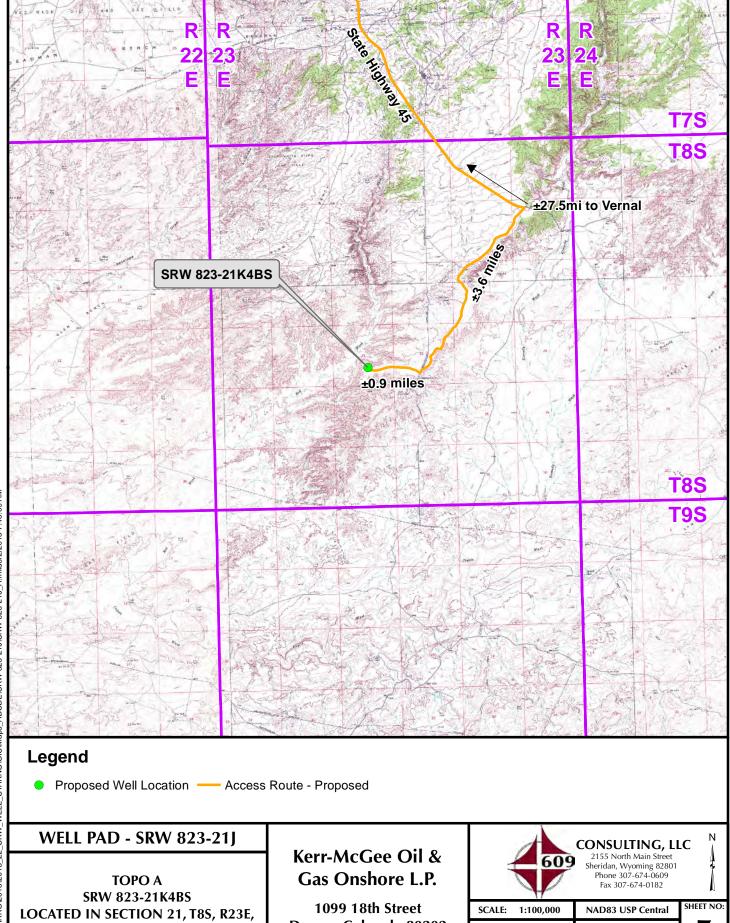
CONSULTING, LLC 2155 North Main Street Sheridan, WY 82801 Phone 307-674-0609 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

ENGINEERING & LAND SURVEYING, INC. 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 3-25-13	PHOTOS TAKEN BY: J.W.	SHEET NO:
DATE DRAWN: 3-27-13	DRAWN BY: C.T.C.	6
Date Last Revised:		6 OF 13



Denver, Colorado 80202

DRAWN:

REVISED:

TL

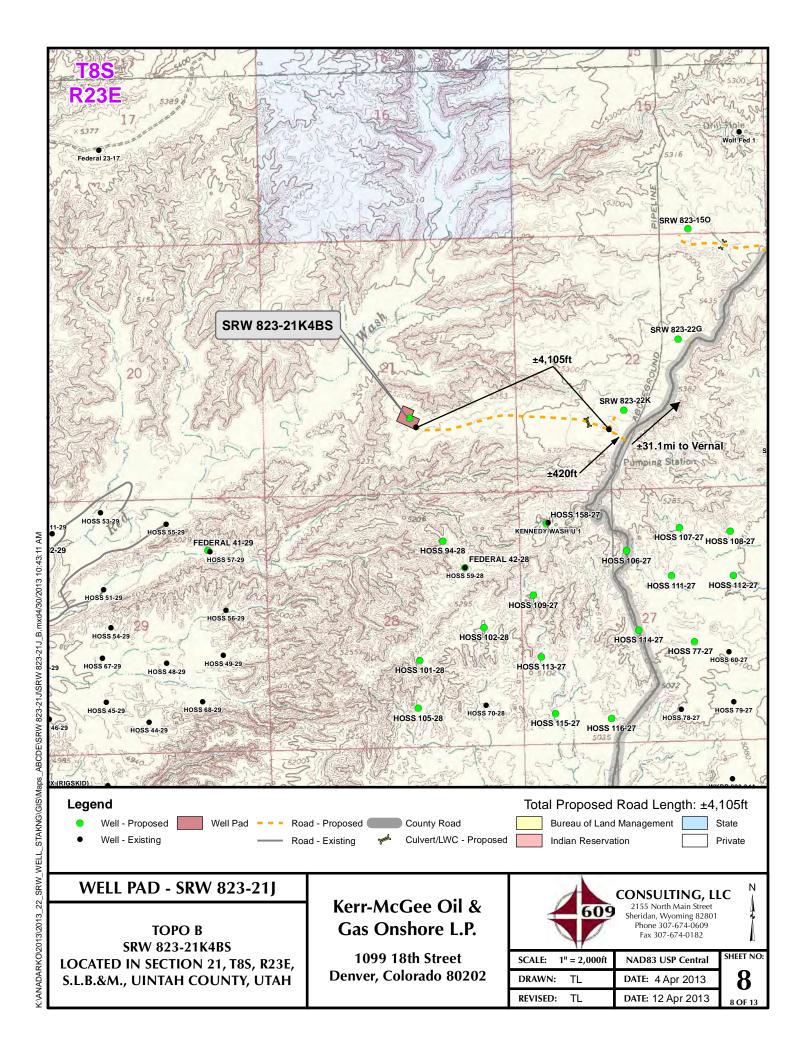
DATE: 4 Apr 2013

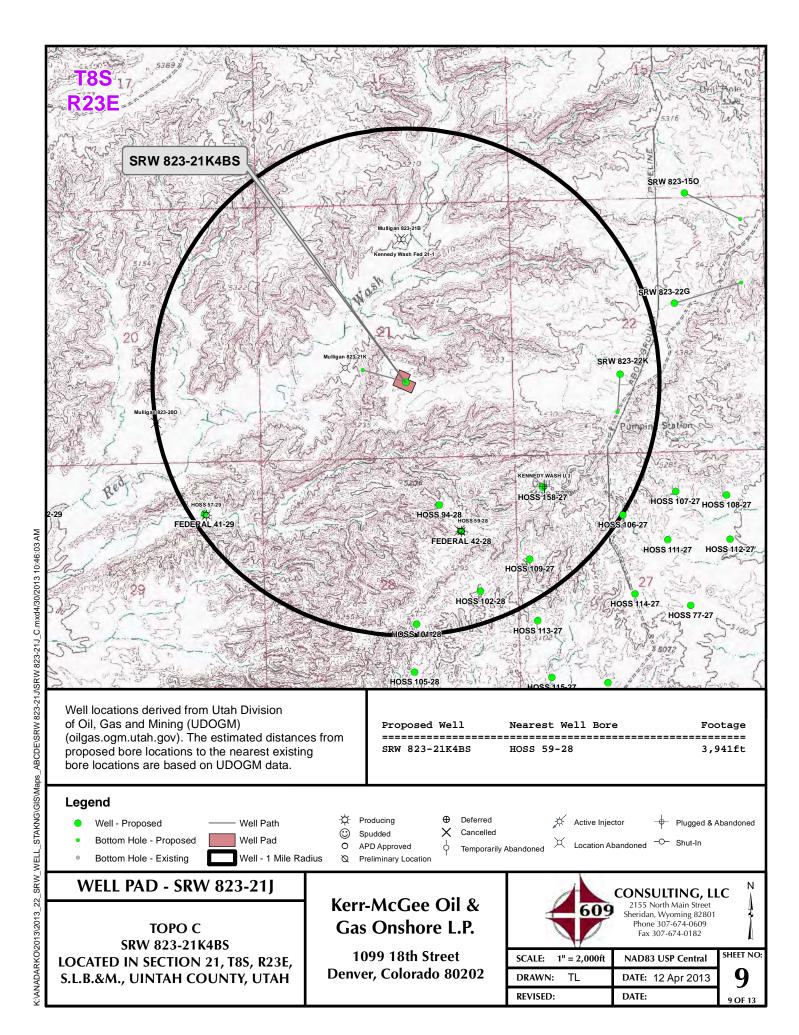
7 OF 13

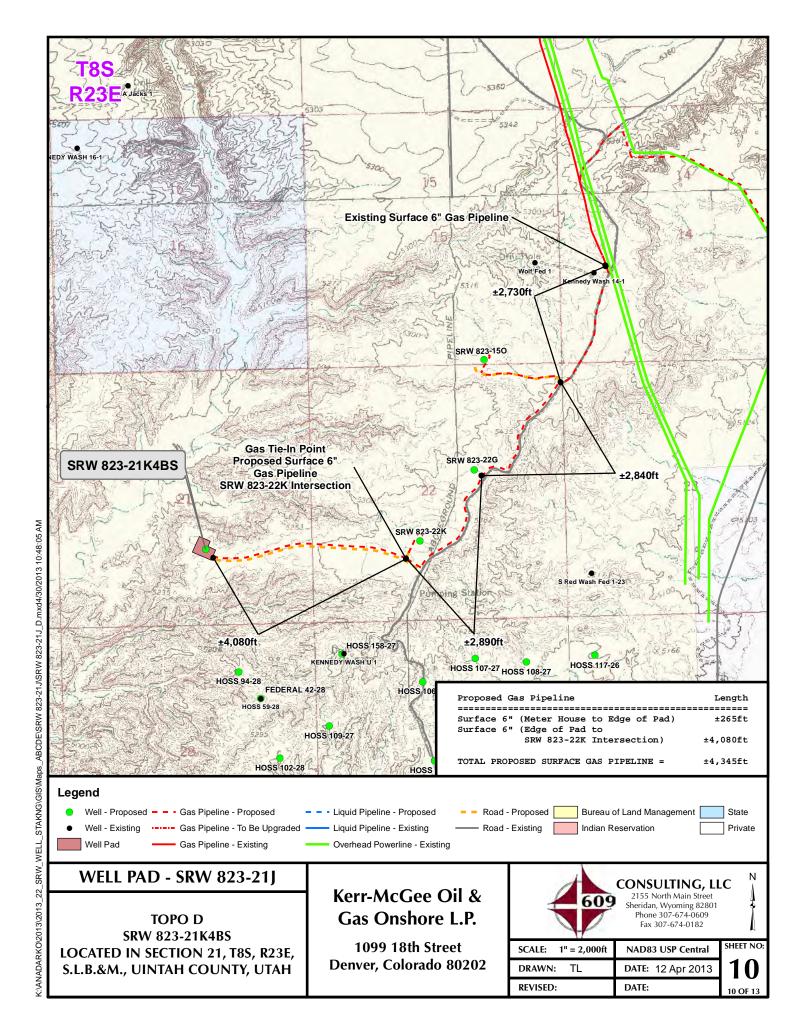
DATE:

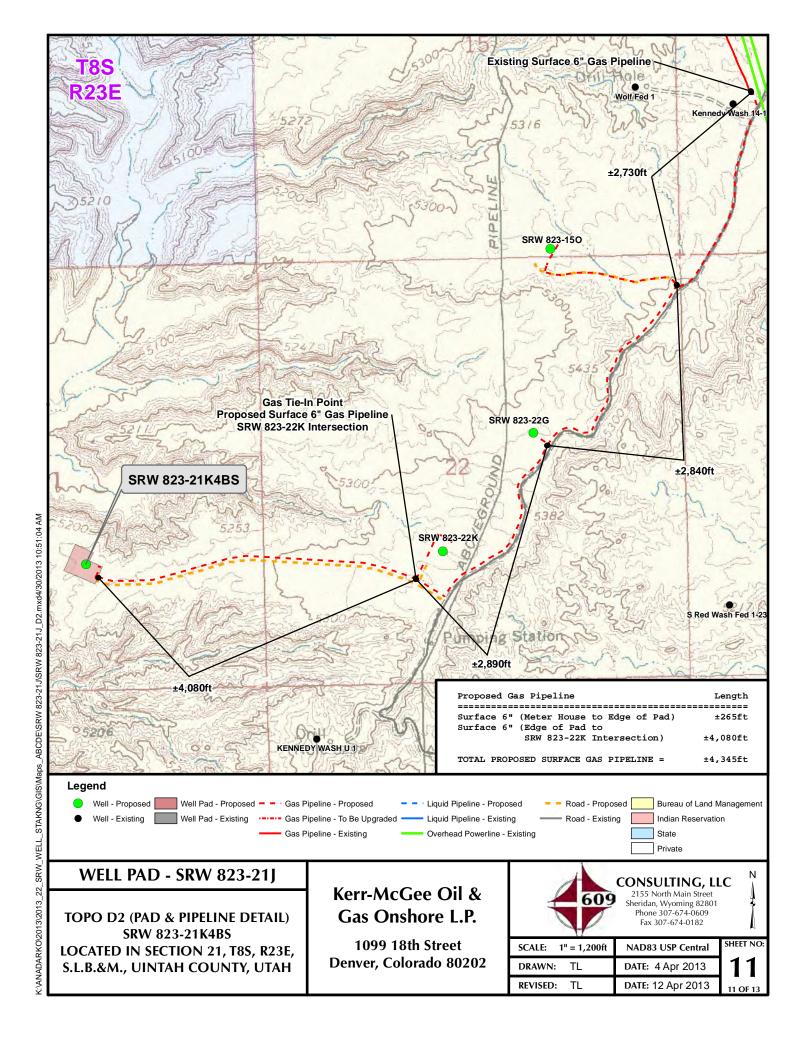
K:\ANADARKO\2013\2013_22_SRW_WELL_STAKNG\GIS\Maps_ABCDE\SRW 823-21J\SRW 823-21J_A.mxd5/2/2013 7:45:09 AM

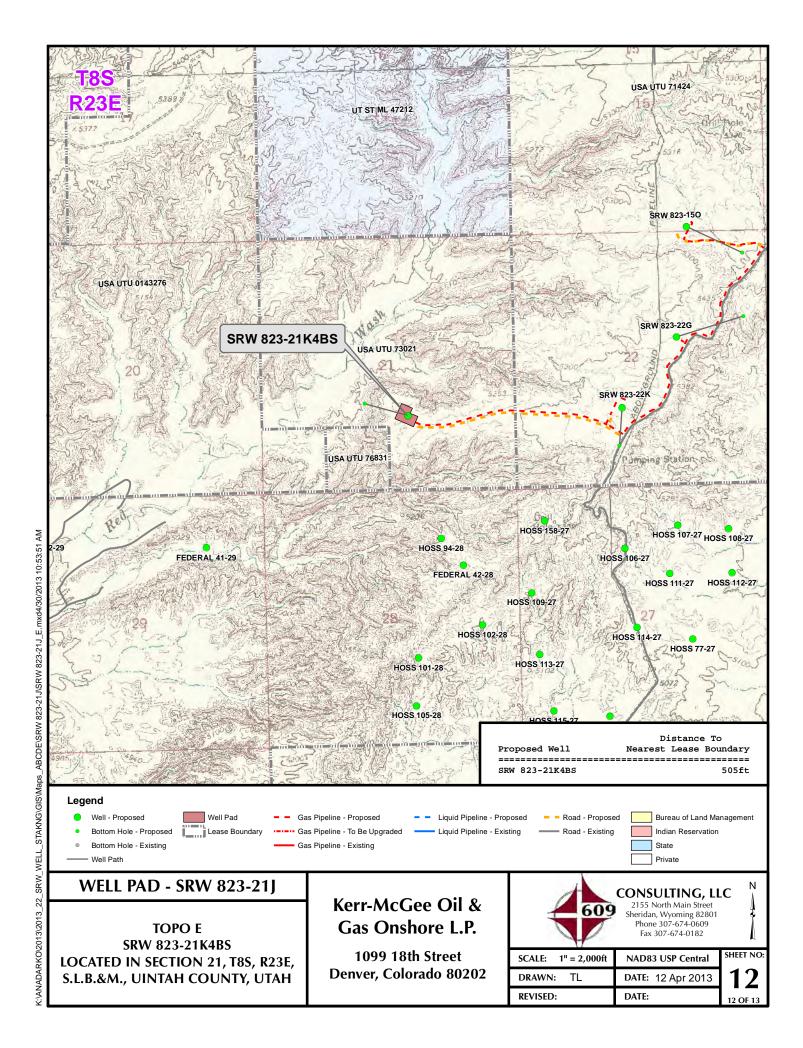
S.L.B.&M., UINTAH COUNTY, UTAH













Grasslands Consulting, Inc.

611 Corporate Circle, Unit H, Golden, CO 80401 (303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT SPECIES REPORT

Report Number: GCI-875

Report Date: April 29, 2013

Operator: Kerr-McGee Oil & Gas Onshore, LP

Operator Contact: Gina Becker (gina.becker@anadarko.com; 720-929-6086)

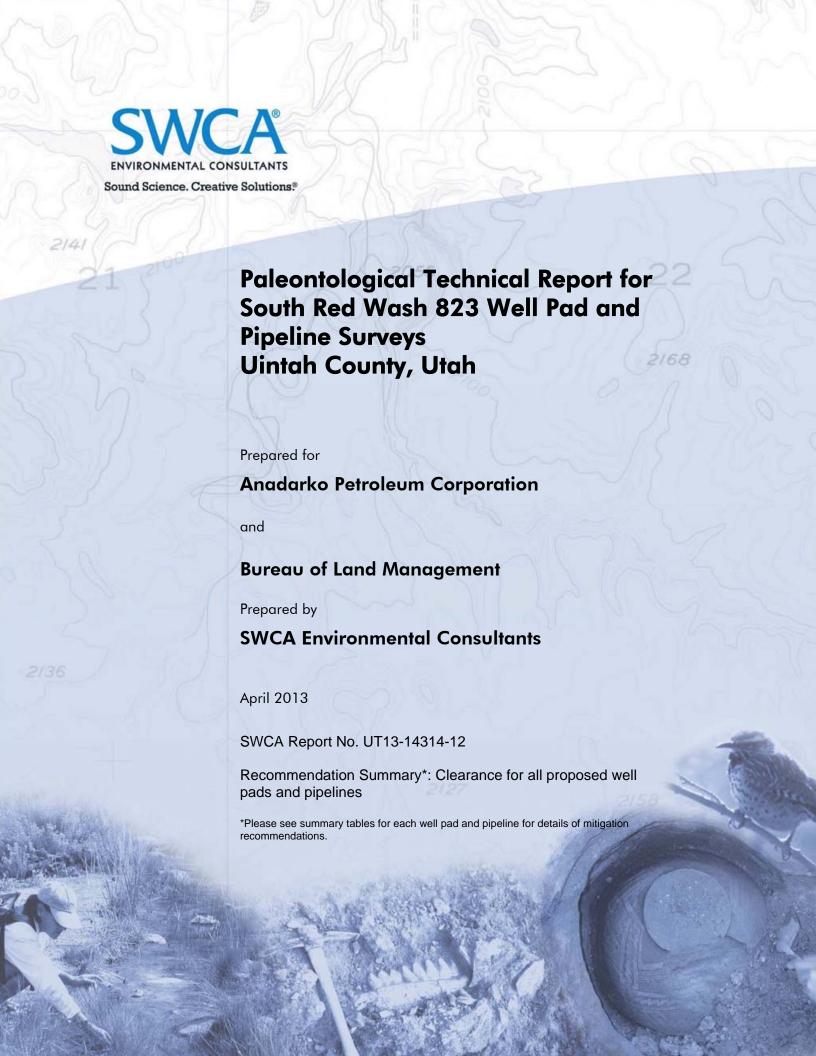
Proposed Project: South Red Wash (SRW) 823-15O, 823-21J, 823-22G, and 823-22K (including the construction of four well pads, four well bores (SRW 823-21K4BS, SRW 823-22A1CS, SRW 823-22H1CS, and SRW 823-22N1CS), and associated access roads, gas pipelines, and ACTS pipelines)

Location: Sections 15, 21, and 22 of Township 8 South, Range 23 East; Uintah County, Utah

Survey Species: Uinta Basin hookless cactus (*Sclerocactus wetlandicus*), Spanish bayonet (*Yucca sterilis*), and noxious weeds

Survey Dates: April 20-22, 2013

Observers: Grasslands Consulting, Inc. biologists Adrienne Cunningham, Mike Wilder, Liana Cabiles, Kyle Flesness, and field technicians



CULTURAL RESOURCE INVENTORY
OF KERR-MCGEE OIL & GAS ONSHORE LP'S
PROPOSED SRW 823-030 GR, SRW 823-10B GR,
SRW 823-10G GR, SRW 823-13G1CS, SRW 823-13L1CS,
SRW 823-21K4BS, SRW 823-22A1CS, SRW 823-22H1CS,
SRW 823-22N1CS, AND SRW 823-23H1CS
WELL LOCATIONS, UINTAH COUNTY, UTAH

By

Jacki A. Montgomery

Prepared For:

Bureau of Land Management Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil & Gas Onshore LP 1368 South 1200 East Vernal, Utah 84052

Prepared By:

Montgomery Archaeological Consultants, Inc. P.O. Box 219 Moab, Utah 84532

April 23, 2013

MOAC Report No. 13-057

United States Department of Interior (FLPMA)
Permit No. 13-UT-60122

State of Utah Antiquities Project (Survey)
Permit No. U-13-MQ-0218b

Kerr-McGee Oil & Gas Onshore LP



A wholly owned subsidiary of Anadarko Petroleum Corporation

1099 18th Street Denver, CO 80202 720-929-6000 (main)

May 3, 2013

Mrs. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

RE: Well Name: SRW 823-21K4BS

T8S-R23E

Section 21: SL: NWSE, BHL: NESW Surface Location: 2252' FEL, 1548' FSL Bottom Hole: 2139' FWL, 1822' FSL

Uintah County, Utah

Dear Mrs. Mason:

Kerr-McGee Oil & Gas Onshore LP (KMG) has submitted a permit to drill the SRW 823-21K4BS well (Well) to test the Wasatch / Mesasverde / Blackhawk formations. The Well is located within an area that is not covered by a spacing order adjudicated by the Utah Department of Natural Resources, Division of Oil, Gas and Mining. Therefore, the Well is subject to the Utah Administrative Code Rule # R649-3, which provides for the location and siting of wells in the absence of spacing orders.

According to Rule # R649-3, each oil and gas well shall be located in the center of a 40 acre quarter-quarter section, or a substantially equivalent lot or tract or combination of lots or tracts as shown by the most recent governmental survey, with a tolerance of 200 feet in any direction from the center location, a "window" 400 feet square. Additionally, no oil or gas well shall be drilled less than 920 feet from any other well drilling to, is completed in, or capable of producing oil or gas from the same pool.

The surface location of the Well is approximately 232' feet outside of the 400 foot square "window" in the NWSE of Section 21. This is due to a limited amount of topographically acceptable surface locations and KMG's commitment to reducing its surface footprint. Additionally, there is no wellbore within 920 feet drilled to, is completed in, or capable of producing from the Wasatch / Mesasverde / Blackhawk formations. KMG owns 100% of the leasehold in the offset lands and has no objection to the exception location.

Kerr-McGee respectfully requests your approval of this exception location. If you have any questions or require any additional information, please do not hesitate to call me at 720-929-6351.

Sincerely,

Robert T. Spencer Senior Landman

